CLAIMS

I claim:

- 1. A door lock control system, comprising:
 - a door mounted in a door frame;
 - a door lock associated with the door to lock and unlock the door; control means to lock and unlock the door lock; and,
- a vibration sensor associated with the control means, the control means causing the door lock to be unlocked when a vibration above a certain level is sensed by the vibration sensor.
- The door lock control system of claim 1, and further comprising:
 the door lock is a magnetic lock.
- The door lock control system of claim 1, and further comprising:
 the vibration sensed by the vibration sensor is an earthquake or a bomb explosion.
- 4. The door lock control system of claim 1, and further comprising: the vibration sensor includes a permanent magnetic connected to a pendulum, a magnetic contact positioned near the permanent magnet, and a relay switch.
- 5. The door lock control system of claim 1, and further comprising: the control means to lock and unlock the door lock further comprises: a low voltage DC power source; a backup battery;

a relay switch; and, the vibration sensor.

- 6. The door lock control system of claim 5, and further comprising:
 the low voltage DC power source, the backup battery, the relay switch,
 and the vibration sensor are all contained within a control box.
- 7. The door lock control system of claim 6, and further comprising: the control box is mounted at a location remote from small vibrations caused by the door.
- The door lock control system of claim 6, and further comprising:
 the control box is mounted to a rigid wall or column remote from the door.
- 9. A method of controlling a lock on a door, comprising the steps of: maintaining a door in a locked state; monitoring for vibrations near the door; determining if the monitored vibration is above a certain level; and, unlocking the door if the vibrations is above the certain level.
- 10. The method of controlling a lock on a door of claim 9, and further comprising the steps of:

the step of monitoring for vibrations includes monitoring for an earthquake or a bomb explosion.

11. The method of controlling a lock on a door of claim 9, and further comprising the steps of:

the step of determining if the monitored vibration is above a certain level includes the step of determining if the vibration is above 0.1 g.

- 12. A control box, comprising:
 - a box;
 - a door hinged to the box;
 - a DC power supply mounted in the box;
 - a backup battery mounted in the box;
 - a terminal and fuse board mounted in the box; and,
 - a vibration sensor mounted in the box.
- 13. The control box of claim 12, and further comprising;

the DC power supply is a low voltage power supply.

- 14. A vibration sensor, comprising;
 - a hollow body;
 - a top plate mounted to a top of the body;
 - a pendulum attached to the top plate;
 - a permanent magnet attached to the pendulum;
 - a bottom plate mounted to a bottom of the body;
 - a magnetic contact switch mounted to the bottom plate;
 - a weight displaceable along the pendulum;
 - a marking on the weight; and,
- a scale on the body, the marking and the scale forming a means to determine a position of the weight along the pendulum.
- 15. The vibration sensor of claim 14, and further comprising:
 - a second box secured to a side of the body;

- a relay switch secured within the second box; and,
- a wire to electrically connect the relay switch to the magnetic contact switch.
- 16. The vibration sensor of claim 15, and further comprising:

the pendulum includes a threaded outer surface, and the weight includes a hole having threads which engage the threads of the pendulum.

- 17. The vibration sensor of claim 15, and further comprising:
 - a front plate;
 - a cutout portion in the front plate;
 - a transparent plate; and,

the transparent plate having a hole therein and positioned near to the magnet on the pendulum such that a tool can be inserted through the hole to displace the magnet.

- 18. The vibration sensor of claim 15, and further comprising:
 - a first eye-bolt connected to the pendulum;
 - a second eye-bolt connected to the first eye-bolt;
 - a hole in the top plate; and,

the second eye-bolt being adjustably secured to the top plate through the hole by a nut secured to the second eye-bolt.

- 19. The vibration sensor of claim 15, and further comprising:
 - the bottom plate including a relay switch; and,
 - a plurality of wires extending out from the bottom plate.
- 20. The vibration sensor of claim 17, and further comprising:

the cutout portion is of such size so as to allow for the position of the weight on the pendulum and a space between the magnet and the contact switch to be observed through the cutout portion; and,

a hole in the transparent plate located near the magnet of the pendulum.

21. The vibration sensor of claim 15, and further comprising:

an opening in the second box; and,

indication means visible through the hole to indicate a status of the sensor.

22. The vibration sensor of claim 21, and further comprising:

the indication means includes a red light and a green light, the green light indicating a ready status of the sensor and the red light indicating a displaced position of the pendulum.

- 23. The vibration sensor of claim 22, and further comprising:
 - a buzzer mounted to the second box.
- 24. The vibration sensor of claim 14, and further comprising:
 - a relay switch integral with the bottom plate;
 - a wire to connect the relay switch with the magnetic contact switch; and, wires extending out from a hole in the bottom plate.